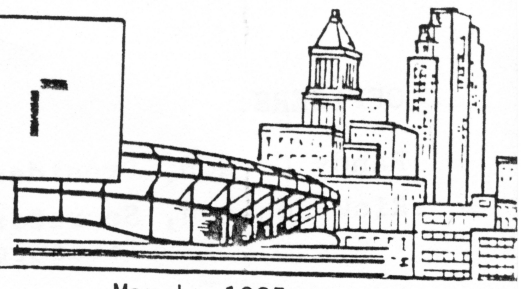
TIMEX sinclair
USERS GROUP OF CINCINNATI
Vol. 3 No. 2 March, 1985



NEXT MEETING:

April 28, 1985
May 19, 1985
June 23, 1985
July 28, 1985

All meetings are held at 2:00 PM in room 506, Crosley Tower, University of Cincinnati.

TREASURER'S REPORT

The group's funds are in a FSLIC insured Savings and Loan and were not affected by the governor's actions.

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Latest News From SUM:
(Sinclair Users Magazine)

Portugal is going to start shipping a version of the 2068 called the SILVER AVENGER.

Not a lot of info at this time, but they DID build a lot of units for Timex.

This could be a very interesting development!!!

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Please submit all articles to:
Bill Bernard
6316 Firestone Dr.
Fairfield, OH 45014

MARCH NEWS from THE T/S CONNECTION

Fast and furious seems to be the way things are going for Timex Users as we enter our second year of being Orphaned by the Timex Computer Corp.

It is really hard to keep up with all of the new things that are becoming available to us, and to try to sort out the goods from the bads.

We have now received just about everything from Little Rock, and it really wasn't all that much.

A pretty fair stock of 1000 tapes came in, at a price which enables us to reduce our price for existing inventory by almost 50%.

All Timex 1000 tapes are now:
$6.00 a dozen
Come in and mix them up the way you want.
If we ship them, it's our choice.
Individual tapes are $1.00 each.

These prices apply to everything except the ORGANIZER, (VU-FILE) which is holding at $5.00.

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OFFICERS:

Randy Gordon, President 581-6009
Rick Johnson, Secretary/ Treasurer 825-1449

****

T/S 1000 Computers.
Used, defective in some way!! Guaranteed to not work!!!!
Most of these units have only a minor problem, but Tim desn't have the time to check and repair all of them.
Great for spare parts or internal hacking.
Computer only, no manuals, cables, or power supplys.
.....$7.50

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T/S 1500 Computers.
Same as above, except price.
.....$25.00

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It would appear that TIMEX has now severed all lines to the Computer Department in Conn. and Ark.
A phone call will get a taped answer to call The T/S Connection for repairs or service.
Warranty service is still being maintained in Little Rock, but we hope to pick up that service also.

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If you are not subscribing to, or buying, The Computer Shopper, you really should take a look at a copy. The Timex/Sinclair survival pages contain lots of information, and the want ad pages always have lots of T/S goodies for sale.

.....

Watch for ZX COMPUTING to hit the News Stands soon. This mag is from England, and has loads of info that is great for T/S users.

****

TS HORIZONS continues to be one of the BEST information sources for TS NEWS. We need this kind of information, and the best way to keep it coming is to BUY, or subscribe.
The latest issue has a review of all Word Processors for the 2068. Take a look, you might find one that you like.

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And, speaking of WP's, we are still working on a comparison of Tasword II and Mscript. It is tough to do because of the many fine features of each. But, we'll get there one of these days.

.....

MODEM USERS!!!!
If you have been thinking about Compuserve, we now have the packet with 5 hours of FREE connect time for only $30.00

This price for club members only.

Non-member price is.....$40.00

And, if you have Compuserve and have been going CEM 450, you know that Zipf-Davis has pulled the rug again.

Go PCS 54, will access the Timex sig, and everything is there the same way it has been.

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

DRAW II, by Jon Roketenetz, continues to be well accepted by users across the country. If you are interested in Graphics and have an imaginative and creative desire, DRAW II is for you.

In stock now.....$24.95

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Latest news from SIN.
(Thats the Sinclair Information Network)
Exerpt from 3/10/85 Newsletter

Sinclair has been talking about releasing the ZX Spectrum + into the US market. A few were actually brought in and lent to a few dealers for evaluation. However, Sinclair has rethought its original intentions, and now is *NOT* going through with the US intruduction. Too bad about that, but hang in there.

(End of exerpt)

****

Well, I don't know what the above item tells us, except that we don't need to get all excited about having a Spectrum + anytime soon.

Just received a new supply of the Smart II Manual by Barry Carter.

If you have a 2068, a Modem, and Smart II software, this book is a MUST HAVE. It takes you by the hand and leads you through all of the features of Smart II in easy to understand language.

Includes newest updates....$6.00

ATTENTION----ALL READERS

If you have ordered a 2068 Technical Manual from Little Rock, and have not received it, please contact us:
by phone, 513 271 5575,
by mail, 3832 Watterson Ave.
Cincinnati, Oh. 45227
by MCI , Jack Roberts MCI 230 8034
by BBS, Coconut 513 984 8705
or by Compuserve,
Jack Roberts, 75036, 136

Please include name, address, and check number.

We will run it down for you!!!!

If you are ready to buy one of the manuals, we have them in stock. And, we will ship, same day.

.....$25.00
plus $1.50 UPS.

The John Oliger Co. has a few items that may be useful to some of you HACKERS.
2068 User Cartridge Board
2068 Expansion Board
2068 Eprom Programmer
Vpp Power Supply
2068 Parrallel Printer Port

Call us for details.

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If you are not on the Mailing list for the E. Arthur Brown Co. catalogue, give us a call and we will see that your name is added.

This Co. has a wide selection of products for the Timex User, and will have some good specials in the next mailing.

If you want something fast, and don't want to make a long distance call, call us at 271 5575, and we will order for you.

We are in touch every day.

****

The April issue of the Computer Shopper has a complex description and wiring diagram for controlling the power to the 2040 printer.

Our Power Saver Switch does the job better, is easier to install, and costs less than the parts that are described in the article.

We can furnish and install the Power Saver for about the same $$ as the parts would cost.

And, it has a LED, so that you can tell at a glance if your printer is turned on.

Switch.....$7.50
Installed.....$15.00

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THE T/S CONNECTION
3832 Waterson Ave.
Cincinnati, Ohio 45227

TIMEX-SINCLAIR PUBLICATIONS

We have recently recevied several complimentary copies of Timex-Sinclair related publications. These are:

T-S Horizons
SUM
Time Designs

T-S Horizons has 32 pages and is published on a more or less monthly basis. You always receive twelve issues for your subscription price of only $15.00. Although the page size is only 7x10, they are filled with information on hardware and software for both the TS-1000 and TS-2000 series of computers. All around a very nice magazine.

SUM (Sinclair/Timex Users Magazine) is a monthly publication and averages 12 pages per issue. It is only $12.00 per year or a six month trial subscription for only $6.00. It normally has hardware projects for either the TS-1000 or TS-2000 as well as software reviews. Again a very nice magazine.

Time Designs is a bi-monthly publication. The issue we received had 36 pages. The subscription price for one year (6 issues) is $15.00. This magazine also has both hardware and software articles for both the TS-1000 and the TS-2068. Again a very fine magazine.

All three magazines are well worth their subscription price. We would be hard pressed to recommend one over the other. Subscribe to all three. If you can't afford all three, subscribe to at least one of them. They all have a substantial group of advertisers. Support the magazines and their advertisers.

SUBSCRIBE

SUBSCRIBE TO TIME DESIGNS MAGAZINE... ONE YEAR (SIX BIG ISSUES) FOR ONLY $15.00. THAT IS A SAVINGS OF 50¢ OFF EACH ISSUE AT THE REGULAR NEWS-STAND PRICE.

Clip and mail this coupon (or a copy, if you do not wish to cut-up your magazine), along with a check or money order for $15.00 to: TIME DESIGNS MAGAZINE, 29722 Hult Rd., Colton, OR, 97017. Your subsription will begin with the next current issue, unless you specify something different.

NAME: _____

ADDRESS: _____

CITY, STATE: _____

ZIP: _____

S TS 1000 U TS 1500 M TS 2068

The Sinclair/Timex User's Magazine

Hardware Projects • Hardware Reviews
Software Reviews • Product Comparisons
Published Monthly • Back Issues Available
Free Personal Ads for Subscribers

SUM Magazine is aimed at Sinclair and Timex users who want to learn what is available for their computers, how to do things no one else is doing, and what is just over the horizon. Examples of recent articles include: Building your own Spectrum Emulator; an extensive series of reviews on word processors for the 2068; adding an RGB monitor to your 2068; and a series on repairing your TS1000 and ZX81 computers.

SUM Magazine invites articles, reviews, and projects for possible publication. **We pay for articles published!** Hardware and software producers are invited to submit their products for review.

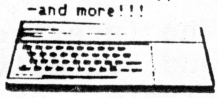
Annual Subscription **$12**
Free Sample Copy on Request

SUM Magazine
3224 NW 30 Avenue — Gainesville, Florida 32605

T-S Horizons

Each issue brings you 32 pages of usable information, program listings, product reviews, programming articles, hardware projects, and applications for your computer. T-S HORIZONS features nationally known authors like Paul Hunter, Gordon Young, and others. The price is ONLY $15.00 for a full year (12 issues). AND for a limited time only, new subscribers will receive our special telecommunications issue (#7, see below) *FREE* with their subscription.

IN T-S HORIZONS #7 -
Byte Back Modem Review
2068 Programming Tips
How a Compiler Works
Telecommunications for Beginners
Book & Game Reviews
Rotating Globe Routine
Articles By G. Young and Paul Hunter
Sinclair Info. Network
TS-1000 Power Supply -and more!!!



T-S HORIZONS

$15 for 12 monthly issues. $2.00 sample or back issues.

Enclose $15 (US) for 12-issue subscription, plus *FREE* back issue (while supplies last). $21 Canada, $25 other foreign. Extra back issue/sample: $2.00

SEND TO: T-S HORIZONS
2002 Summit St
PORTSMOUTH, OH 45662

NAME_____

ADDRESS_____

CITY_____

STATE,ZIP_____

Autolist Dialer

This program is derived from Randy Kuhn's MODEM control from BASIC. We modified the AUTO-DIAL portion of the code to make a phone list dialer that uses your modem as a dialing unit. This has nothing to do with sending MODEM tones or telecommunications, it just allows you to dial a name from the list of 100 phone numbers. Even though we did not use the AUTO-ANSWER portion of the code, we left it in for the more adventurous user to play with.

Use this program to keep a list of frequently dialed phone numbers that must be dialed as a group. For

```
  1 GO TO 1145
  2 REM AUTODIAL (modified
for AUTOlist dialer)
  5 CLS : PRINT "AUTO-DIALER"
 10 INPUT a$: PRINT : PRINT a$:
PRINT
 15 OUT 119,31
 20 FOR i=1 TO LEN a$
 30 LET a=VAL a$(i)
 32 IF a=0 THEN LET a=10
 35 PAUSE 25
 40 GO SUB 60
 50 NEXT i
 55 GO TO 150
 60 FOR d=1 TO a
 70 FOR e=3 TO 4
 80 OUT 119,e
 90 PAUSE 3.5
100 NEXT e
110 OUT 119,1
120 OUT 119,2
130 NEXT d
140 RETURN
150 PRINT FLASH 1;"       PICK
UP PHONE NOW!
155 FOR x=1 TO 4: BEEP .1,23: N
EXT x
160 PAUSE 1000
170 OUT 119,0
180 RETURN
1000 REM AUTOANSWER
1001 OUT 119,34
1005 OUT 119,0
1010 LET a=IN 119
1020 IF a=5 THEN GO TO 1010
1030 PAUSE 400
1040 LET a=IN 119
1045 IF a=5 THEN GO TO 1010
1050 PAUSE 400
1060 LET a=IN 119
1065 IF a=5 THEN GO TO 1010
1070 OUT 119,2
1080 OUT 119,34
1090 STOP
1100 REM AUTOPHONE LIST DIALER
1110 DIM n$(100,7): DIM b$(100,2
0): LET i$=""
1115 CLS : PRINT "INPUT name the
n INPUT number."
1120 FOR x=1 TO 100
1125 PRINT x;" ";: INPUT b$(x);:
 PRINT b$(x);: INPUT n$(x): PRIN
T n$(x): IF CODE b$(x)=32 THEN G
O TO 1145
1126 IF i$="c" THEN LET i$="": P
AUSE 200: GO TO 1145
1127 NEXT x
1128 CLS : PRINT "LIST FULL": PA
USE 200: GO TO 1145
1130 STOP
1145 LET p=1
1147 ON ERR GO TO 3000
1150 CLS
1155 FOR y=0+p TO 19+p: PRINT y;
" ";b$(y): NEXT y: LET p=p+20: I
F p>100 THEN LET p=1
1160 PRINT "#=DIAL <ENTER>=PAGE
""c""=CHANGE#": INPUT i$
1165 IF i$="" THEN GO TO 1150
1166 IF i$="c" THEN CLS : PRINT
"INPUT list # to CHANGE": INPUT
x: GO TO 1125
1170 LET a$=n$(VAL i$): GO SUB 1
5
1180 GO TO 1145
2001 REM RANDY KUHN/AUTO-DIAL &
AUTO-ANSWER FOR WESTRIDGE 2050.
Please note that the PAUSE times
are very important. Auto-answer
will answer in three rings, it
will not answer if picked up
first.
2002 REM RANDY GORDON (FLASHWARE)
/AUTOPHONE LIST DIALER 8/19/85
3000 REM ERROR TRAP
3001 ON ERR RESET
3005 CLS : PRINT "Your variable
list has not been initialized. R
UN 1100 to start entering list.
 To save list to tape, type GOT
O 9997."
9000 STOP
9997 SAVE "AUTOPHONE" LINE 1145
```

MASS STORAGE FOR THE TS-2068

We have seen at least five mass storage devices for the TS-2068-SPECTRUM computers:

ZX-Microdrives
A&J Micro Drive
DAMCO/ROTRONICS WAFADRIVE
AERCO 2068 DISC SYSTEM
RAMEX Millennia K interface

ZX-MICRODRIVE:

Price (includes interface)	$129.95
Additional Microdrive	$61.50
Cartridge	$3.00
Capacity	85K

Requires OMNI-EMU or similiar interface and a bus converter.

A&J MICRO DRIVE

Price	$199.50
Additional Micro Drive	$124.50
Micro Wafer	$4.75
Capacity	85K

DAMCO/ROTRONICS WAFADRIVE

Price	$229.95
Wafer	$3.99
Capacity	128K

Includes RS232 and Centronics interfaces. Price includes OMNI-EMU interface.

AERCO 2068 DISC SYSTEM

Price	$397.00
Diskette	$2.00
Capacity	400K

This system was demoed recently at the Bay Area Users group.

RAMEX Millennia K interface

Price	$450.00
Diskette	$2.00
Capacity	800K

This appears to be the same as the SPDOS system offered by Watford Electronics in the U.K.

The following article is on the U.K. product SPDOS. This SPDOS would appear to be the same SPDOS offered by Ramex.

SPDOS

This article is a condensed and edited version of an article appearing in the January and February issues of SINCLAIR USER, U.K. version.

SPDOS from Watford Electronics has been released recently; it has the backing of a company which has made a name for itself by designing and selling interfaces for the BBC.

The interface will accept both 5¼in and 3in drives in 40 or 80 track, single or double-side format. SPDOS can also accept old 35 track drives. Up to four drives can be used.

The most popular system is the 5¼in and diskettes cost between $2.00 and $3.00 each. The amount of information they can hold will vary according to the drive used to record it. SPDOS divides each track into 10 sectors of 512 bytes per sector. A 40 track, single-side drive, allowing one track for the directory gives 195K.

The speed of a system depends on several things, including the speed of the drive. All disks spin at 300 rpm, five revolutions per second - but the time it takes to move from track to track will vary. SPDOS will work at a number of speeds, from 6ms to 30ms.

Another factor is the method of reading the sectors; SPDOS reads the sectors one after the other which should be faster than the practice of reading alternate sectors.

Powering up, or pressing the reset button automatically loads the operating system into memory. If a program has been saved with the name "AUTO",in upper case, then that will also be loaded. If the program is in BASIC and was saved using LINE then it will auto-run. CODE will auto-run from its first address.

The normal tape commands can be used in the usual way. To make them relate to the disk they must be preceded by PRINT #4: .

The commands that relate to the disk, which must also use PRINT #4: prefix, are: CAT, to obtain a catalog - this can be followed by a string so that only those files containing the string are listed; CLEAR which performs a block delete; ERASE to erase a file - this includes a wild-card facility where ^ can stand for any character; MOVE renames files or can be used to copy them.

SPDOS supports sequential files and a number of commands are used for that: OPEN # and CLOSE # are used to open and close files; PRINT # sends information while INPUT # and INKEY # are used to read it back. To use FORMAT the original system disk has to be in the current drive. That gives the disk its identifying name. Errors are returned as a Basic error message.

The system disk contains two other system utilities. The first of those is "copysys", a program which will copy the system, except for FORMAT to another disk - necessary if you want to use CAT on the other disk. The other program is "minidos", a stripped down version of the system which does not as far as is apparent, include the sequential access commands.

TASWORD II, MASTERFILE and OMNICALC 2 have been converted to use the system and include demonstration data.

The following test program was run to test the SAVE, LOAD and ERASE speed of SPDOS. The program SAVEs 30 sets of CODE of 200 bytes each.

```
10 FOR n=1 TO 30
20 PRINT #4: SAVE ("test"+STR$n)
   CODE 32000,200
30 NEXT n
```

SPDOS took 58 seconds in saving, 23 loading and 29 erasing. Formating depends on the number of tracks and sides; with an 80 track, single side disk SPDOS took 2 minutes 43 seconds.

SPDOS allows 144 directory entries per disk.

SPDOS with its overlays, sequential access and fast loading times is very technically advanced but uses a lot of memory.

If you only want to write your own programs then SPDOS may be the system for you.

Softwares Buyers Guide

Well, you say that with Timex out of business we will get no support for 2068 computer. So you think why not just put the old silver box in the closet, start saving the lunch money and maybe you'll get a PC Jr. or an Apple II c. Whoa, old keyboard breath the show is allong way from being lost. First, did you know , that there are at least thirty suppliers from which to buy and over 200 pieces of software costing from $8.00 to $90.00.

The following is a list of software that was collected from ads and compiled on VU-File. I have tried to keep the listing as complete and correct as I could.

The software list gives four pieces of information; name, type, maker, and list of suppliers with cost. The suppliers' addresses have been listed and an index was made. Each software was classified by type a shown below.

GAME	game program
HOME	for home use
EDUC	educational use
BUSS	business use
FINC	finance program
WORD	word processor
UTIL	utility program
DATA	data base use
SPSH	spread sheet
GRPH	graphic program
TRNG	training program
COMM	communication

I did not have access to all the 200 programs nor manytimes a good description so, unfortunely, I guess on a few of them.

One word of caution, if you do order from this list, it would be best that you contact the supplier for the up-todate price and to be sure that they are in business. I did not call or write to these suppliers. I would like to thank Rick Johnson for his help in gathering some of the programs. Also, it would be just as helpful for a list of programs for the 1000 to be published in the newsletter but I leave it for someone else to do.

P.S. If anyone would like a copy of the data for the VU-File I will have it at the next meeting.

Tom Burt

3D STRATAGY	GAME
3D STRATEGY-	GAME
3D-TANX	GAME
A. C. NETWORK ANALYSER	BUSS
A.C.Z. GENERAL LEDGER	BUSS
ABC LIFTOFF	EDUC
ACCOUNTS PAYABLE	BUSS
ACCOUNTS RECEIVABLE	BUSS
ACHIEVEMENT PROFILE	EDUC
ADDRESS BOOK	DATA
ADVANCED MATH	EDUC
AEGEAN VOYAGE	EDUC
ALF IN THE COLOUR CAVE	EDUC
ALPHABET ZOO	EDUC
AMORTIZATION	FINC
ANDROIDS	GAME
ANDROIDS-	GAME
ANT ATTACK	GAME
APPOINTMENT CALENDER	BUSS
APPOINTMENT PLANNER	BUSS
APPOINTMENT/SCHEDULER	BUSS
AQUAPLANE	GAME
ARDENNES	GAME
ART FOR ALL AGES	EDUC
ART FOR KIDS	EDUC
ASSEMBLER&INTEGER COMPILER	UTIL
ASSEMBLER-TS2068	UTIL
ASTROBLASTER	GAME
AUTO ANALYZER	HOME
BACKGAMMON	GAME
BADGAMMON	GAME
BANK RAID	GAME
BASLOAD	UTIL
BATTLESHIP	GAME
BILLMASTER	BUSS
BIORYTHMS	EDUC
BLACKJACK	GAME
BLIND ALLEY	GAME
BOARD SHOW	EDUC
BRAIN STRAIN	GAME
BRITAIN INVADED	GAME
BUDGET MINDER	FINC
BUDGETER	HOME
BUDGETER-	FINC
BUGABOO	GAME
BUGABOO-	GAME
BUGBLASTER	GAME
BUSINESS BANK ACCOUNT	BUSS
CALORIE COUNTER	HOME
CAPITALIZATION	EDUC
CASH REGISTER	BUSS
CASINO 1	GAME
CASINO 1-	GAME
CHECK-B	FINC
CHECK-BOOK	FINC
CHECKBOOK MANAGER	FINC
CHECKING	FINC
CHEQUERED FLAG	GAME
CHESS	GAME
CHESS PLAYER	GAME
CHESS PLAYER-	GAME
CIRCUIT BOARD SCRAMBLE	GAME
CO-GO SURVEYING	BUSS
CODENAME MAT	GAME
COIN COLLECTOR	HOME
COMPASS (2 PROG. IN 1)	UTIL
CONVERSATIONAL FRENCH	EDUC
CONVERSATIONAL SPANISH	EDUC
COSMIC GORILLA	GAME
COSMIC GORILLA	GAME
COUNTABOUT	EDUC
COUNTABOUT	EDUC
CPA (3 PROG PACK)	BUSS
CRAZYBUGS	GAME
CRAZYBUGS-	GAME
CROSSFIRE	GAME
CROWN	GAME
CYBERZONE	GAME
CYBERZONE-	GAME
CYBIRD ASSAULT	GAME
DANCE FANTASY	GAME
DATA BASE MANAGER 64	BUSS
DEATHCHASE	GAME
DEVILS OF THE DEEP	GAME
DIGITAL CIRCUIT DESIGNER	BUSS
DISASSEMBLER	UTIL
DOCTOR PSYCHO	EDUC
DOMINOES	GAME
DRAGMASTER	GAME
DRAGONFIRE	GAME
DRAGONS BANE	GAME
DRAW POKER	GAME
EASY EDITOR	WORD
ELECTRIC COST ANALYZER	HOME
EPICA	GAME
EVEREST ASCENT	GAME
EXECUTIVE'S CALENDAR	BUSS
FALL OF THE THIRD REICH	GAME
FIG-FORTH	UTIL
FIGARO DATA BASE	DATA
FIGHTER PILOT	GAME
FINANCE PLANNER	FINC
FINANCIL RECORD	FINC
FISHING WITH NUMBERS	EDUC
FLAGS I&II	EDUC
FLASH SPELLING	EDUC
FLEET STRATEGY	GAME
FLEXICALC	SPSH
FLEXICON/FLEXIGEN	BUSS
FLIGHT SIMULATOR	TRNG
FLIGHT SIMULATOR-	TRNG
FOOTBALL	GAME
FRACTION FEVER	EDUC
FRACTION FUN	EDUC
FRACTION ZAP	EDUC
FRED	GAME
FRENZY	GAME
FROGGER	GAME
FULL THROTTLE	GAME
FUN & GAMES	GAME
FUN GOLF	GAME
G-LEDGER	BUSS
GALLERY GRAPHICS	GRPH
GAME BAG FOR KIDS	GAME

GAME OF NIM	GAME
GAMES DESIGNER	UTIL
GAMES'84	GAME
GATECRASHER	GAME
GENERAL LEDGER	BUSS
GENERALA	GAME
GHOST TOWN	GAME
GOLD$	GAME
GRAFIST	GRPH
GRAPHICS TOOLKIT	GRPH
GREAT GRAPHICS SHOW	GRPH
GRID RUNNER	GAME
GUARDIAN	GAME
GUITAR FOR BEGINNERS	EDUC
GULPMAN	GAME
GULPMAN-	GAME
HAUNTED HEDGES	GAME
HEATING SYSTEM ANALYZER	HOME
HIGHSCHOOL FRENCH	EDUC
HIGHSCHOOL MATH	EDUC
HOME FINANCE MANAGER	FINC
HOME IMPROVEMENT	HOME
HORACE AND THE SPIDERS	GAME
HORACE GOES SKIING	GAME
HOT 2 II	UTIL
HOT DOT SPOTTER	EDUC
HUNGRY HORACE	GAME
I.Q. TEST	EDUC
INSIDE-OUTSIDE EARTH	EDUC
INTERM. ENGLISH 1	EDUC
INTERM. ENGLISH 2	EDUC
INTERM. MATHEMATICS 1	EDUC
INTERM. MATHEMATICS 2	EDUC
INVENTORY	BUSS
INVINCIBLE ISLAND	GAME
INVOICE CONTROL	BUSS
INVOICE CONTROL 2	BUSS
KIDS ON KEYS	EDUC
KINDER COMP	EDUC
KOOL-AID	EDUC
LANGUAGE USAGE	EDUC
LASERZONE	GAME
LDISAM	UTIL
LIFE LINE	EDUC
LITTLE BLACK BOOK	BUSS
LOGIC LEVELS	EDUC
LOST	GAME
LOST ISLAND	GAME
LUNA CRABS	GAME
M-SCRIPT	WORD
MAH JUNG	GAME
MAILING LIST	BUSS
MAILING LIST	DATA
MAKE A FACE	EDUC
MAKING CHANGE	EDUC
MATCH MAKER	GAME
MATH QUIZ	EDUC
MATH TOOLKIT	UTIL
MATH WIZARDRY 1	EDUC
MATH WIZARDRY 2	EDUC
METEOR STORM	GAME
MINED-OUT	GAME
MINEDUT-	GAME
MONTE CARLO	GAME
MOONSWEEPER	GAME
MOONSWEEPER	GAME
MOTHERSHIP	GAME
MOUSE TRAP	GAME
MR. CLOCK	EDUC
MTOS	UTIL
MULTI-DRAW	GRPH

MULTIPLICATION TABLES	EDUC
MUSICOLA	EDUC
MYSTERY MANOR	GAME
NUMBER TUMBLERS	EDUC
NURSERY SONGS	EDUC
ONE-ARM BANDIT	GAME
OPERATION PHEONIX	GAME
OUR EARTH INSIDE & OUT	EDUC
OUR SOLAR SYSTEM	EDUC
PARADISE PARK	GAME
PAYOFF	FINC
PAYOFF 2000	FINC
PAYROLL	BUSS
PAYROLL	BUSS
PAYROLL	BUSS
PENETRATOR	GAME
PENTOMINOES	GAME
PERSONAL ACCOUNTANT	FINC
PERSONAL ACCOUNTANT-	GAME
PERSONAL HOME FINC	FINC
PERSONAL PORTFOLIO	FINC
PERSONALITY PROFILE	EDUC
PHEONIX	GAME
PHYSICAL FITNESS ANALYSIS	HOME
PINBALL	GAME
PINBALL	GAME
POLNOMIALS	EDUC
PRIMARY ARITHMETIC	EDUC
PRO/FILE	DATA
PROGRAM CONVERTER	UTIL
PURCHASE LEDGER	BUSS
QUADRA CHART	SPSH
QUETZALCOATL	GAME
RANCH	EDUC
RAPID FIRE	GAME
ROBBER	GAME
ROBOT RUNNER	EDUC
SALES FILE	BUSS
SALES LEDGER	BUSS
SAUCER STRIKE	GAME
SAVE MR. BILL	EDUC
SCAM (5 IN 1 PROG)	BUSS
SCREEN CALC	SPSH
SHIP OF THE LINE	GAME
SINCBASIC 2000	UTIL
SLOT MACHINE	GAME
SMART 2	COMM
SMUGGLER'S COVE	GAME
SMUGGLER'S COVE-	GAME
SNOWMAN	GAME
SOLAR SYSTEM	EDUC
SOLAR WATER HEATER DESIGN	HOME
SPACE GUNNER	GAME
SPACE INTRUDERS	GAME
SPAWN OF EVIL	GAME
SPELLER BEE	EDUC
SPELLING 1	EDUC
SPELLING 2	EDUC
STAMP COLLECTOR	HOME
STAR CLASH	GAME
STAR SHIP	GAME
STARFIRE	GAME
STATE CAPITALS	EDUC
STATES & CAPITALS	EDUC
STATES & CAPITALS-	EDUC
STOCKMARKET SIMULATION	FINC
SUB ATTACK	GAME
SUB HUNT	GAME
SUM CRUNCHERS	EDUC
SUPER SPY	GAME

SWORDFIGHT	GAME
T/S COUNT 1.5	BUS
TALE TELLER 1	EDUC
TALE TELLER 2	EDUC
TASMATH	EDUC
TASMERGE	WORD
TASPRINT	WORD
TASWIDE	UTIL
TASWORD 2	WORD
TEACHER GRADEBOOK	DATA
TEXTMAN	WORD
TEXTWRITER 2000	WORD
TEXTWRITER 2000 PLUS	WORD
TEXTWRITER PLUS 64	WORD
THE CROWN	GAME
THE DOOR	GAME
THE ISLAND	GAME
THE MODEL DIET	HOME
TIC TAC TOAD	EDUC
TIME TEACHER	EDUC
TIMEGATE	GAME
TIMEGATE-	GAME
TRADER	GAME
TRADER TRILOLOGY	GAME
TRAXX	GAME
TRIVIA MACHINE	GAME
TRNSYLVANIAN TOWER	GAME
TS COUNT	FINC
TS-SLOWLOADER	UTIL
TV TRIVIA	GAME
U.S. PRESIDENTS	EDUC
U.S.A	EDUC

UP & ATOM	EDUC
UP-LOAD 2000	UTIL
URBAN UPSTART	GAME
UTILITY 1 (SORT SEACH)	UTIL
UTILITY 2 (DEF GRAPHIC)	UTIL
UTILITY 3 (64 COLUMN)	UTIL
VELNORS LAIR	GAME
VOICE CHESS	GAME
VOICE CHESS-	GAME
VU-3D	GRPH
VU-CALC	SPSH
VU-FILE	DATA
WAR IN THE EAST	GAME
WILD WORDS	EDUC
WORD ARCADE	EDUC
WORD CROSS	EDUC
WORD PLAY 1	EDUC
WORD PLAY 2	EDUC
WORD SINC 2.3 WORDPROCESSO	WORD
WORD-MOST	WORD
WORDPROCESSER & FILE	WORD
WORDS TO KNOW	EDUC
WORLD CAPITALS	EDUC
WP32	WORD
WP64	WORD
XADOM	GAME
XADOM-	GAME
YAHTZEE	GAME
ZAPAMOLEY	GAME
ZEUS ASSEMBLER	UTIL
ZEUS ASSEMBLER-	UTIL
ZEUS MONITOR/DISASSEMBLER	UTIL

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